

State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas **RECEIVED**  
Well Operator's Report of Well Work **Office of Oil and Gas**

JUN 11 2021

WV Department of  
Environmental Protection

API 47-051-02194 County Marshall District Franklin  
Quad Powhatan Point 7.5' Pad Name Burch Ridge Field/Pool Name \_\_\_\_\_  
Farm name Consol RCPC, LLC Well Number Burch Ridge S-7HU  
Operator (as registered with the OOG) Tug Hill Operating, LLC  
Address 380 Southpointe Boulevard, Plaza II, Suite 200 City Canonsburg State PA Zip 15317

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4,400,509.53 Easting 516,923.11  
Landing Point of Curve Northing 4,401,159.88 Easting 517,035.39  
Bottom Hole Northing 4,398,076.61 Easting 518,810.05

Elevation (ft) 1311.0' GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine

Mud Type(s) and Additive(s)  
SOBM; Base oil, osmotic inhibitor, weighting agent, viscosifier, emulsifier, hardness buffer, fluid loss additive, LCM, Shale inhibitor, de-foamer, soaping agent, coagulant, flocculant; specific additives per WSSP and Permit.

Date permit issued 7/2/2019 Date drilling commenced 9/24/2020 Date drilling ceased 3/14/2021  
Date completion activities began 4/13/2021 Date completion activities ceased 5/3/2021  
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 934' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 1,478' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 835-841', 928-934' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed by:  
B.S.  
8-8-2021

API 47-051 - 02194 Farm name Consol RCPC, LLC Well number Burch Ridge S-7HU

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	36"	30"	120'	NEW	94.5#	N/A	Y
Surface	26"	20"	1,033'	NEW	106.5#	N/A	Y
Coal							
Intermediate 1	17 1/2"	13 3/8"	2,737'	NEW	54.5#	N/A	Y
Intermediate 2	12 1/4"	9 5/8"	10,490'	NEW	47#	N/A	Y
Intermediate 3							
Production	8 1/2"	5 1/2"	23,738'	NEW	23#	N/A	Y
Tubing		2 7/8"	11,869"	NEW	4.7#	N/A	Y
Packer type and depth set							

Comment Details \_\_\_\_\_

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CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	WV Department of Environmental Protection Top (MD)	WOC (hrs)
Conductor	A	276	15.6	1.12	309	0	8
Surface	A	1,815	15.6	1.19	2,160	0	8
Coal							
Intermediate 1	A	2,285	15.6	1.18	2,696	0	8
Intermediate 2	A	4,050	14.5	1.36	5,508	0	8
Intermediate 3							
Production	A	5,655	17.0	1.05	5,938	0	8
Tubing							

Drillers TD (ft) 23,775' Loggers TD (ft) N/A  
 Deepest formation penetrated Trenton Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 10,743'

Check all wireline logs run  caliper  density  deviated/directional  induction  
 neutron  resistivity  gamma ray  temperature  sonic

Well cored  Yes  No Conventional Sidewall Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING 3 centralizers on surface casing at equal distance.

Intermediate - 1 centralizer every other joint.  
 Production - one centralizer every other joint in lateral, one centralizer every joint through curve, one centralizer every other joint to surface.

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_

08/27/2021



API 47- 051 - 02194 Farm name Consol RCPC, LLC Well number Burch Ridge S-7HU

PRODUCING FORMATION(S)	DEPTHS	
<u>POINT PLEASANT</u>	<u>11,228'-11,410'</u> TVD	<u>12,027'-23,775'</u> MD
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 8000 psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 500 mcfpd Oil 0 bpd NGL 0 bpd Water 550 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND REPORT QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, etc)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	<u>0</u>		<u>0</u>		
<u>*see attached</u>					

Please insert additional pages as applicable.

Drilling Contractor Helmerich & Payne International Drilling Co.  
Address 1437 S. Boulder Avenue City Tulsa State OK Zip 74119

Logging Company n/a  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Cementing Company Halliburton Energy Services, Inc.  
Address 121 Champion Way, Suite 200 City Canonsburg State PA Zip 15317

Stimulating Company PRO-FRAC  
Address 333 Shops Boulevard City Willow Park State TX Zip 76087

Please insert additional pages as applicable.

Completed by Amy L. Morris Telephone 304-376-0111  
Signature *Amy L. Morris* Title Permitting Specialist - Appalachia Region Date 6-10-2021

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

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**Burch Ridge S-7HU  
PEFORATION RECORD**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	Formation(s)
1	4/13/2021	23,549	23,596	48	Utica
2	4/14/2021	23,333	23,507	48	Utica
3	4/14/2021	23,135	23,308	48	Utica
4	4/15/2021	22,936	23,110	48	Utica
5	4/15/2021	22,738	22,912	48	Utica
6	4/16/2021	22,540	22,713	48	Utica
7	4/16/2021	22,342	22,515	48	Utica
8	4/16/2021	22,143	22,317	48	Utica
9	4/17/2021	21,945	22,119	48	Utica
10	4/17/2021	21,747	21,920	48	Utica
11	4/17/2021	21,548	21,722	48	Utica
12	4/18/2021	21,350	21,524	48	Utica
13	4/18/2021	21,152	21,325	48	Utica
14	4/18/2021	20,953	21,127	48	Utica
15	4/19/2021	20,755	20,929	48	Utica
16	4/19/2021	20,557	20,730	48	Utica
17	4/19/2021	20,359	20,532	48	Utica
18	4/19/2021	20,160	20,334	48	Utica
19	4/20/2021	19,962	20,136	48	Utica
20	4/20/2021	19,764	19,937	48	Utica
21	4/20/2021	19,565	19,739	48	Utica
22	4/21/2021	19,367	19,541	48	Utica
23	4/21/2021	19,169	19,342	48	Utica
24	4/21/2021	18,970	19,144	48	Utica
25	4/22/2021	18,772	18,946	48	Utica
26	4/22/2021	18,574	18,747	48	Utica
27	4/22/2021	18,376	18,549	48	Utica
28	4/23/2021	18,177	18,351	48	Utica
29	4/23/2021	17,979	18,153	48	Utica
30	4/23/2021	17,781	17,954	48	Utica
31	4/24/2021	17,582	17,756	48	Utica
32	4/24/2021	17,384	17,558	48	Utica
33	4/24/2021	17,186	17,359	48	Utica
34	4/25/2021	16,987	17,161	48	Utica
35	4/25/2021	16,789	16,963	48	Utica
36	4/25/2021	16,591	16,764	48	Utica
37	4/26/2021	16,393	16,566	48	Utica
38	4/26/2021	16,194	16,368	48	Utica
39	4/27/2021	15,996	16,170	48	Utica
40	4/27/2021	15,798	15,971	48	Utica
41	4/27/2021	15,599	15,773	48	Utica

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Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	Formation(s)
42	4/27/2021	15,401	15,575	48	Utica
43	4/28/2021	15,203	15,376	48	Utica
44	4/28/2021	15,004	15,178	48	Utica
45	4/28/2021	14,806	14,980	48	Utica
46	4/29/2021	14,608	14,781	48	Utica
47	4/29/2021	14,410	14,583	48	Utica
48	4/30/2021	14,211	14,385	48	Utica
49	4/30/2021	14,013	14,187	48	Utica
50	4/30/2021	13,815	13,988	48	Utica
51	4/30/2021	13,616	13,790	48	Utica
52	5/1/2021	13,418	13,592	48	Utica
53	5/1/2021	13,220	13,393	48	Utica
54	5/1/2021	13,021	13,195	48	Utica
55	5/2/2021	12,823	12,997	48	Utica
56	5/2/2021	12,625	12,798	48	Utica
57	5/2/2021	12,427	12,600	48	Utica
58	5/3/2021	12,228	12,402	48	Utica
59	5/3/2021	12,030	12,204	48	Utica

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**BURCH RIDGE S-7HU  
STIMULATION INFORMATION PER STAGE**

Stage No.	Ave. Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	89	11634	10429	7,104	250320	6,679	0
2	90	11550	7444	7,642	495300	8,161	0
3	89	11317	7006	7,350	500300	8,253	0
4	88	10805	6818	7,688	458548	9,882	0
5	89	11273	6925	9,364	500080	8,035	0
6	88	11627	7867	7,365	507080	8,191	0
7	90	11671	10515	7,700	506120	8,040	0
8	89	11747	10951	9,077	496820	8,061	0
9	88	11803	8231	7,924	495720	7,961	0
10	88	11598	9380	8,143	497320	8,061	0
11	87	11847	5000	8,633	506680	7,984	0
12	87	11744	8386	8,267	497560	7,994	0
13	89	11793	10105	7,900	506320	8,029	0
14	87	11607	9364	8,141	498380	8,055	0
15	87	11759	8636	8,280	504860	7,937	0
16	90	11693	9732	7,920	496380	8,017	0
17	90	11658	10203	8,152	499340	8,027	0
18	88	11683	8851	8,129	498600	7,987	0
19	90	11679	9441	8,218	507900	7,955	0
20	90	11550	8842	7,898	506960	8,013	0
21	89	11546	9993	8,170	494620	7,990	0
22	89	11610	8589	7,765	502460	7,999	0
23	89	11435	9619	7,608	499320	7,913	0
24	90	11263	9128	8,141	501320	8,178	0
25	89	11470	8306	8,504	497080	7,928	0
26	89	11116	7951	8,177	501520	7,951	0
27	90	11121	9039	8,052	505200	7,947	0
28	89	11284	8904	7,994	505540	7,973	0
29	89	10967	7825	7,894	499880	7,998	0
30	89	11024	8717	7,627	505480	7,911	0
31	89	11109	8272	8,113	498760	7,879	0
32	89	11099	9003	7,542	505240	8,954	0

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Stage No.	Ave. Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
33	90	11006	8931	7,944	507880	7,809	0
34	89	11172	8291	7,404	505600	7,943	0
35	89	11002	7812	7,737	502340	7,902	0
36	90	11021	8986	7,694	508100	7,853	0
37	88	10704	8216	7,773	500520	7,707	0
38	90	10682	7950	8,439	506320	7,889	0
39	90	10681	8072	7,484	498280	7,845	0
40	89	10503	7886	7,721	499640	7,825	0
41	90	10574	7847	7,676	498600	7,703	0
42	89	10396	8219	7,995	502680	7,725	0
43	88	10319	7600	8,153	502400	7,739	0
44	88	10335	7830	8,141	505860	8,932	0
45	91	10390	7922	7,874	503960	7,765	0
46	88	9889	7485	8,097	502060	7,876	0
47	88	9898	7417	7,931	508860	7,841	0
48	90	10169	7536	8,422	503960	7,694	0
49	88	10152	7938	7,424	498680	7,653	0
50	90	10128	7762	7,633	499240	7,684	0
51	90	10101	7431	8,016	503880	7,721	0
52	88	10181	7805	7,623	508340	7,784	0
53	88	10128	7750	8,688	503800	7,798	0
54	90	10434	8801	7,500	501240	7,714	0
55	87	10200	8490	7,154	506660	7,833	0
56	85	10098	9118	7,755	501420	8,482	0
57	89	10532	8353	7,656	500320	7,673	0
58	87	10424	9176	7,730	505320	7,770	0
59	89	10222	8546	8,094	503240	7,592	0

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BURCH RIDGE S-7HU

LITHOLOGY/FORMATION	TOP DEPTH IN FT/ Name TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID
Maxton	1997	2094	2000	2098	Sandstone
Big Lime	2094	2161	2098	2165	Limestone
Big Injun	2161	2448	2165	2454	Sandstone
Weir	2448	2636	2454	2643	Sandstone
Berea	2636	2976	2643	2984	Sandstone
Gordon	2976	3032	2984	3041	Sandstone
Fifty Foot	3032	3613	3041	3635	Sandstone
Speechley	3613	4982	3635	5057	Sandstone
Benson	4982	5357	5057	5446	Sandstone
Alexander	5357	5931	5446	6038	Siltstone
Rhinestreet	5931	6353	6038	6475	Black shale
Middlesex	6353	6445	6475	6570	Black shale
Geneseo/Burkett	6445	6462	6570	6588	Black shale
Tully	6462	6485	6588	6611	Limestone
Hamilton	6485	6521	6611	6648	Grey shale
Marcellus	6521	6573	6648	6701	Black shale
Onondaga	6573	6803	6701	6937	Limestone
Oriskany	6803	6902	6937	7039	Sandstone
Helderberg	6902	7263	7039	7413	Limestone
Salina	7263	8270	7413	8460	Salt/Anhydrite/LS
Lockport	8270	8624	8460	8850	Dolomite
Rose Hill	8624	8890	8850	9156	Shale
Packer Shell	8890	9101	9156	9396	Limestone
Clinton/Tuscarora	9101	9202	9396	9512	Sandstone
Juniata/Queenston	9202	9925	9512	10327	Red Shale
Reedsville	9925	10924	10327	11418	Grey Shale
Utica	10924	11188	11418	11877	Black Shale
Point Pleasant	11188	-	11877	-	Shale/Limestone

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# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	4/13/2021
Job End Date:	5/3/2021
State:	West Virginia
County:	Marshall
API Number:	47-051-02194-00-00
Operator Name:	Tug Hill Operating, LLC
Well Name and Number:	Burch Ridge S 7HU
Latitude:	39.75433715
Longitude:	-80.80246111
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	11,324
Total Base Water Volume (gal):	19,727,190
Total Base Non Water Volume:	0



## Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Tug Hill Operating	Carrier/Base Fluid	Water	7732-18-5	100.00000	84.54694	None
Sand (40/70 White Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	11.85587	None
Sand (100 Mesh Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	3.21056	None
Hydrochloric Acid (7.5%)	PVS	Acidizing	Water	7732-18-5	85.00000	0.23483	None
			Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	37.00000	0.10222	None
StimStream FR 9800	Chemstream	Friction Reducer	Butene, homopolymer	90032-29-6	25.00000	0.01611	None
			Alkanes, C16-20-iso-	90622-89-6	25.00000	0.01611	None
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00193	None
MC MX 9-4743	Multi-Chem	Biocide	Sodium Nitrate	7631-99-4	60.00000	0.02151	None
LD-7750W	Multi-Chem	Scale Inhibitor					

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			Methanol	67-56-1	60.00000	0.00492	None
			Phosphonic Acid Salt	Proprietary	5.00000	0.00041	None
ProFE 105	ProFrac	Iron Control					
			Citric Acid	77-92-9	100.00000	0.00102	None
ProHib 100	ProFrac	Acid Inhibitor					
			2-Propyn-1-ol compound w/ methyloxirane	38172-91-7	15.00000	0.00013	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Water	7732-18-5	85.00000	0.23483	
			Butene, homopolymer	9003-29-6	25.00000	0.01611	
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00193	
			Phosphonic Acid Salt	Proprietary	5.00000	0.00041	

\* Total Water Volume sources may include fresh water, produced water, and/or recycled water

\*\* Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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(BH) 8,632'

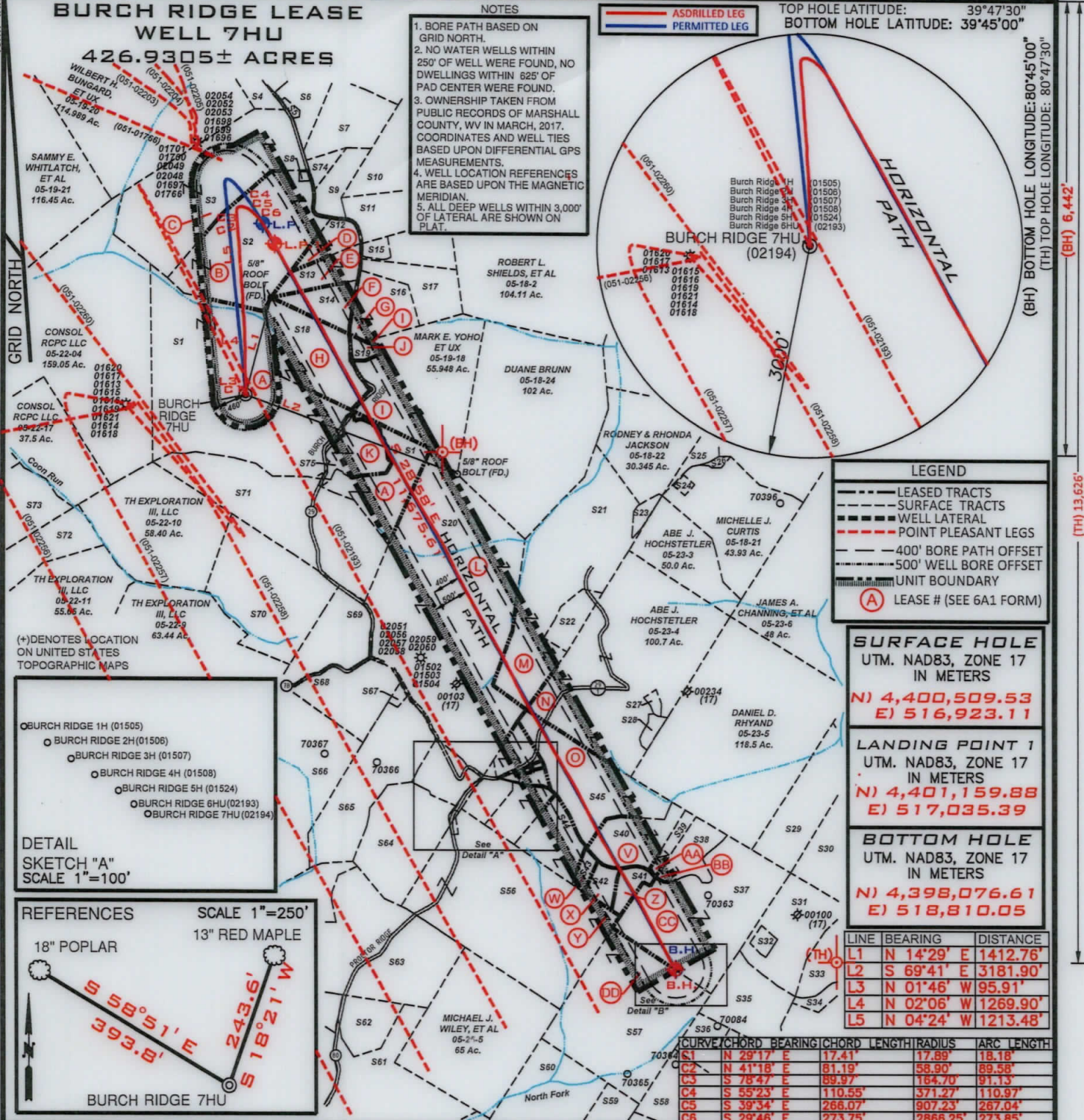
(TH) 3,078'

**BURCH RIDGE LEASE  
WELL 7HU  
426.9305± ACRES**

- NOTES**
1. BORE PATH BASED ON GRID NORTH.
  2. NO WATER WELLS WITHIN 250' OF WELL WERE FOUND, NO DWELLINGS WITHIN 625' OF PAD CENTER WERE FOUND.
  3. OWNERSHIP TAKEN FROM PUBLIC RECORDS OF MARSHALL COUNTY, WV IN MARCH, 2017. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
  4. WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.
  5. ALL DEEP WELLS WITHIN 3,000' OF LATERAL ARE SHOWN ON PLAT.

ASDRILLED LEG  
PERMITTED LEG

TOP HOLE LATITUDE: 39°47'30"  
BOTTOM HOLE LATITUDE: 39°45'00"



**LEGEND**

- LEASE TRACTS
- SURFACE TRACTS
- WELL LATERAL
- POINT PLEASANT LEGS
- 400' BORE PATH OFFSET
- 500' WELL BORE OFFSET
- UNIT BOUNDARY
- (A) LEASE # (SEE 6A1 FORM)

**SURFACE HOLE**  
UTM. NAD83, ZONE 17  
IN METERS

**N) 4,400,509.53**  
**E) 516,923.11**

**LANDING POINT 1**  
UTM. NAD83, ZONE 17  
IN METERS

**N) 4,401,159.88**  
**E) 517,035.39**

**BOTTOM HOLE**  
UTM. NAD83, ZONE 17  
IN METERS

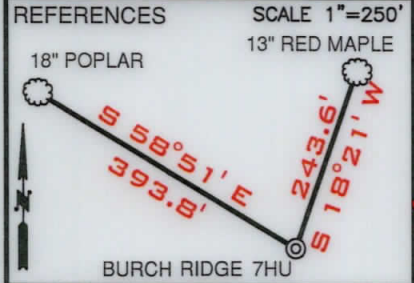
**N) 4,398,076.61**  
**E) 518,810.05**

LINE	BEARING	DISTANCE
L1	N 14°29' E	1412.76'
L2	S 69°41' E	3181.90'
L3	N 01°46' W	95.91'
L4	N 02°06' W	1269.90'
L5	N 04°24' W	1213.48'

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	N 29°17' E	17.41'	17.89'	18.18'
C2	N 41°18' E	81.19'	58.90'	89.58'
C3	S 78°47' E	89.97'	164.70'	91.13'
C4	S 55°23' E	110.55'	371.27'	110.97'
C5	S 39°34' E	266.07'	907.23'	267.04'
C6	S 29°46' E	273.75'	2866.25'	273.85'

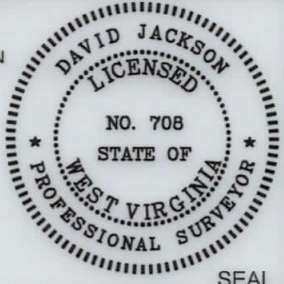
**DETAIL SKETCH "A" SCALE 1"=100'**

- BURCH RIDGE 1H (01505)
- BURCH RIDGE 2H (01506)
- BURCH RIDGE 3H (01507)
- BURCH RIDGE 4H (01508)
- BURCH RIDGE 5H (01524)
- BURCH RIDGE 6HU (02193)
- BURCH RIDGE 7HU (02194)



I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

*David L Jackson*



FILE NUMBER \_\_\_\_\_  
DRAWING NUMBER: BURCH RIDGE\_7HU\_Rev 1  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: 1/200  
PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING  
GRADE GPS



JACKSON SURVEYING INC.  
P.O. Box 1460  
Clarksburg, WV 26302  
304-623-5851

WVDEP  
OFFICE OF OIL & GAS  
601 57TH STREET, SE  
CHARLESTON, WV 25304

DATE: MAY 11, 2021  
OPERATORS WELL NO. BURCH RIDGE 7HU  
API WELL NO. 47-051-02194  
STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS") PRODUCTION X STORAGE \_\_\_ DEEP X SHALLOW \_\_\_  
LOCATION ELEVATION 1311.0' WATERSHED (HUC 10) FRENCH CREEK - OHIO RIVER  
DISTRICT FRANKLIN COUNTY MARSHALL  
QUADRANGLE POWHATAN POINT 7.5' LEASE NUMBER \_\_\_\_\_ SEE WW-6A1 FORM

SURFACE OWNER CONSOL RCPC LLC ACREAGE 134.425  
OIL & GAS ROYALTY OWNER CNX GAS COMPANY LLC LEASE ACREAGE 134.425  
PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_  
PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE (SPECIFY) ASDRILLED  
PLUG & ABANDON \_\_\_ CLEAN OUT & REPLUG \_\_\_  
TARGET FORMATION POINT PLEASANT ESTIMATED DEPTH TVD: 11,410' TMD: 23,775'  
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER  
CT CORPORATION SYSTEM  
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD  
FORT WORTH, TX 76107 CHARLESTON, WV 25313

COUNTY NAME  
PERMIT

08/27/2021

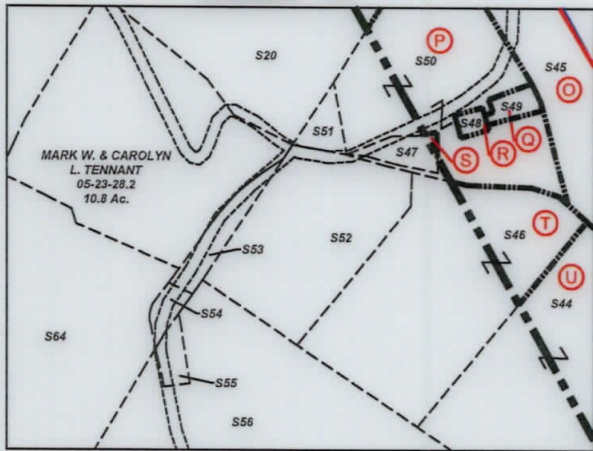
**BURCH RIDGE LEASE  
WELL 7HU  
426.9305± ACRES**

**SURFACE HOLE**  
UTM. NAD83, ZONE 17  
IN METERS  
**N) 4,400,510.28**  
**E) 516,922.14**

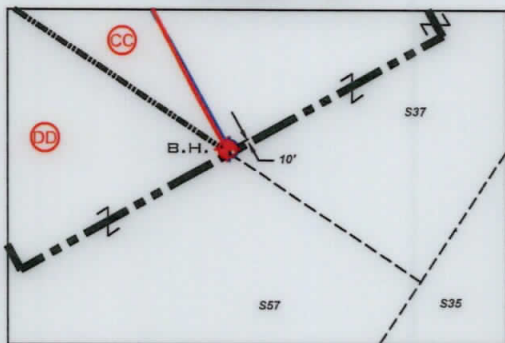
**LANDING POINT 1**  
UTM. NAD83, ZONE 17  
IN METERS  
**N) 4,401,247.04**  
**E) 516,982.22**

**BOTTOM HOLE**  
UTM. NAD83, ZONE 17  
IN METERS  
**N) 4,398,076.96**  
**E) 518,811.89**

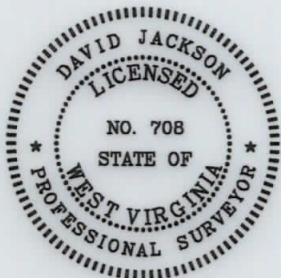
**Detail "A"**



**Detail "B"**



Number	TAX MAP -PARCEL	SURFACE OWNER	ACRES
S1	A 05-22-05	Consol RCPC LLC.	134.425
S2	B 05-19-28	David E. Yoho & Mark E. Yoho	56.899
S3	C 05-19-19	Russell Blake, et ux	66.4
S4	05-19-09	Penny Elaine Mezendez	10.44
S5	05-19-15	B.J. Herran Revocable Trust	0.72
S6	05-19-29	Ernie L. & Tammy L. Anderson	10.961
S7	05-19-30	Ernie & Tammy Anderson	19.037
S8	05-19-32	Jasper N. Burch, et al - Trustees	0.397
S9	05-19-31	Charles F. & Diana L. Haynes	8.779
S10	05-18-01	Diana Henry Haynes & Carol C. Henry	62.908
S11	05-19-14	James & Sherry Beegle	18.356
S12	D 05-19-27	David E. Yoho & Mark E. Yoho	7.041
S13	E 05-19-26	Roger J. & Beth E. James	9.977
S14	F 05-19-25	David E. Yoho & Mark E. Yoho	9.976
S15	05-19-16.1	Robert L. & Rebecca A. Shields	2.307
S16	G 05-19-24	Mark E. Yoho	15.436
S17	05-19-17	Mark E. Yoho	15.263
S18	H 05-19-18.2	Paul V. & Carol Neely	32.672
S19	J 05-19-18.1	Mark E. Yoho, et ux	2.57
S20	L 05-23-01	Patricia Accetolo, et al	146.66
S21	M 05-23-02	Daniel J. & Danielle D. Lilley	70.0
S22	05-23-2.2	Jessica N. & Andrew L. Jones	7.636
S23	05-23-2.1	William L. & Janice M. Wayne	2.364
S24	05-18-21	David P. Lassar, Life and David P. Lassar II & Julius L. Lassar	1.0
S25	05-18-21.1	Rodney & Rhonda Jackson	5.47
S26	05-18-21.3	T.H. Exploration III, LLC	0.811
S27	05-23-4.2	XCL Midstream Operating, LLC	1.17
S28	05-23-4.1	XCL Midstream Operating, LLC	2.16
S29	05-23-08	Carl David & Suzanne L. Guseman	29.5
S30	05-23-9.3	Linda D. Greathouse	17.5
S31	05-23-9.2	Linda D. Greathouse	25.58
S32	05-23-9.4	Jackson R. Sr. & Deanna L. Davis	2.087
S33	05-23-13	Linda D. Greathouse	14.24
S34	05-23-12	Mark A. Yoho	3.05
S35	05-23-9.1	John W. Van Orden, et ux	23.376
S36	05-26-22	Richard Joseph Otte, et ux	8.3
S37	CC 05-23-14	Dominion Transmission, Inc.	59.5
S38	BB 05-23-15	Henry Virginia Ethel, Est	15.5
S39	AA 05-23-16.1	Donald B. Henry	1.97
S40	V 05-23-16	Roy Friend Yoho, Sr.	18.03
S41	Z 05-23-17.3	William & Katherine Flewelling	5.018
S42	X 05-23-17	Tammy & Thomas E. Brown	4.62
S43	W 05-23-17.4	Tammy D. Meadows	2.605
S44	U 05-23-17.2	Dick Jr. & Carol J. Rowan	14.920
S45	O 05-23-18	Abe J. Hochstetler	35.38
S46	T 05-23-17.1	Curtis E. Hall, et ux	10.051
S47	S 05-23-21	Mark A. Yoho & Mark E. Yoho	0.588
S48	R 05-23-20	Christian Church	0.19
S49	Q 05-23-19	DOTY Cemetery	1.0
S50	P 05-23-18.1	Mark A. Yoho	7.8
S51	05-23-29	James Wiley	0.25
S52	05-23-22	Daniel D. Rhyand & Laurel R. Greene	6.25
S53	05-23-23	Michael J. Wiley, et al	1.0
S54	05-23-24	Michael J. Wiley, et al	0.25
S55	05-23-25	Arthur A. Wiley	0.43
S56	Y 05-23-26	Michael J. Wiley, et al	101.57
S57	DD 05-26-07	Dominion Transmission, Inc.	71.0
S58	05-26-23	Richard Joseph Otte, et ux	11.34
S59	05-26-17	Heartland Forestland Fund VII, LP	82.56
S60	05-26-06	Heartland Forestland Fund VII, LP	36.17
S61	05-26-4.4	Otis F. & Glenda M. Rush	39.436
S62	05-26-4.6	Otis F. Rush, Jr.	12.268
S63	05-26-02	Edwin Booth Anderson & Mark W. Booth	67.5
S64	05-23-27	Michael J. Wiley, et al	33.140
S65	05-23-28	Gregg D. Minor	39.43
S66	05-28-05	T.H. Exploration III, LLC.	105.9
S67	05-23-28.1	Troy W. & Erin M. Thomas	1.0
S68	05-22-07	Patricia Accetolo, et al	25.02
S69	05-22-7.1	T.H. Exploration II, LLC & Atinum Marcellus I, LLC	20.68
S70	05-22-08	T.H. Exploration III, LLC.	48.44
S71	05-22-06	Consol RCPC LLC.	64.70
S72	05-22-12	T.H. Exploration III, LLC.	61.49
S73	05-22-16	Edward R. Toho, Jr.	57.0
S74	05-19-30.1	Eric R. W. & Ashley A. Huggins	2.911
S75	K 05-22-5.1	Williams Ohio Valley Midstream, LLC	12.875



P.S. 708 *David L Jackson*

08/27/2021



**TUG HILL  
OPERATING**

OPERATOR'S  
WELL #: Burch Ridge 7HU  
DISTRICT: Franklin  
COUNTY: Marshall  
STATE: WV  
API #: 47-051-02194

**WELL PLAT**  
**PAGE 2 OF 3**  
**DATE: 05/11/2021**

**BURCH RIDGE LEASE  
WELL 7HU  
426.9305± ACRES**

Lease ID	Tags	Parcel	Grantor, Lessor, Etc.	Deed Book	Page
10*19529	A	5-22-5	CNX GAS COMPANY LLC	945	175
10*14297	B	5-19-28	MARK E. YOHO AND DAVID E. YOHO	655	547
10*14634	C	5-19-19	RUSSELL BLAKE & MARY BLAKE	773	568
10*14297	D	5-19-27	MARK E. YOHO AND DAVID E. YOHO	655	547
10*14501	E	5-19-26	ROGER J & BETH E JAMES	752	204
10*14297	F	5-19-25	MARK E. YOHO AND DAVID E. YOHO	655	547
10*14295	G	5-19-24	MARK E YOHO AND MARY YOHO HI	655	546
10*14421	H	5-19-18.2	PAUL V NEELY AND CAROL J NEE	728	277
10*14295	I	5-19-18	MARK E YOHO AND MARY YOHO HI	655	546
10*14295	J	5-19-18.1	MARK E YOHO AND MARY YOHO, ET AL	655	546
10*19529	K	5-22-5.1	CNX GAS COMPANY LLC	945	175
10*14129	L	5-23-1	JESSE P. MCHENRY	703	283
10*14022	M	5-23-2	HOWARD N. WAYNE, SR, ET LUX	665	384
10*14849	N	5-23-4	DAVID GUSTELY, ET AL	806	265
10*14849	O	5-23-18	DAVID GUSTELY, ET AL	806	265
10*14849	P	5-23-18.1	DAVID GUSTELY, ET AL	806	265
10*14849	Q	5-23-19	DAVID GUSTELY, ET AL	806	265
10*14849	R	5-23-20	DAVID GUSTELY, ET AL	806	265
10*14849	S	5-23-21	DAVID GUSTELY, ET AL	806	265
10*14847	T	5-23-17.1	LETHA RUCKMAN, ET AL	806	270
10*14847	U	5-23-17.2	LETHA RUCKMAN, ET AL	806	270
10*14847	V	5-23-16	LETHA RUCKMAN, ET AL	806	270
10*14847	W	5-23-17.4	LETHA RUCKMAN, ET AL	806	270
10*14847	X	5-23-17	LETHA RUCKMAN, ET AL	806	270
10*14742	Y	5-23-26	SUSAN GORE, ET AL	790	505
10*14847	Z	5-23-17.3	LETHA RUCKMAN, ET AL	806	270
10*14847	AA	5-23-16.1	LETHA RUCKMAN, ET AL	806	270
10*14665	BB	5-23-15	DOROTHY TEDROW, ET AL	781	539
10*18343	CC	5-23-14	DOMINION ENERGY TRANSMISSION INC	936	79
10*18343	DD	5-26-7	DOMINION ENERGY TRANSMISSION INC	936	79



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Office of Oil and Gas  
JUN 11 2021  
WV Department of  
Environmental Protection

P.S.  
708

*David L Jackson*

08/27/2021



**TUG HILL  
OPERATING**

OPERATOR'S  
WELL #: Burch Ridge 7HU  
DISTRICT: Franklin  
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WELL PLAT  
PAGE 3 OF 3  
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